

REMARKS/ARGUMENTS

Claim amendments

Claims 21, 44, and 46 were amended to remove reference numbers that were inadvertently included. Claims 1 and 52 were amended to remove the "coupled" language and to add the word "FCL" in the body of the claims, and claims 43, 58, and 59 have been canceled.

Election/Restrictions

Applicant notes that claims 2, 5-9, and 62 were withdrawn pursuant to Applicant's election. Applicant further notes that the Examiner has also determined that claims 4 and 10-13 are not readable on the election.

With respect to claim 2, the Office Action appears to have examined it.

Applicants also note, that the Office action page 2nd paragraph indicates that claim 48 has been withdrawn from consideration as well. However, checkbox 6 of the Office Action summary lists this claim 48 as rejected. Applicant interprets this as a minor typing error.

After the cancellation of claims 43, 58, and 59, claims under consideration appear to be 1-3, 14-42, 44-47, and 49-57, 60, and 61.

Drawings

Applicants respectfully traverse the drawing objections.

Applicant respectfully submits that an example of the two terminations are shown in FIG. 1 with the reference number 18. These terminations 18 are appropriately configured for a series attachment as shown in FIG. 1 and further described in detail of Paragraph 14 of Applicant's specification. Thus, Applicant submits that the drawings do show "every feature of the invention specified in the claims." However, in order to expedite prosecution, Applicant has amended the claims to remove such language.

Applicant respectfully submits that a polygonal shape is illustrated in FIG. 1 and FIG. 4 as described by specification paragraph 19. Again, for this reason, Applicant submits that the drawings do show "every feature specified in the claims."

Rettew

Applicant respectfully traverses the rejection of claims 1-3, 14, 21, and 45 under 35 USC 102(a) over Rettew, US6147580.

Applicant respectfully submits that Rettew does not teach or disclose the claim 1 recitations of:

1. A fault current limiter (FCL) comprising:
an air core flat clock spiral inductor comprising wound electrically conductive material and insulated turns;
two terminations of the FCL.

Applicant have amended claim 1 to put the word "FCL" in the body of the claim and clarify that Applicant

intended the fault current limiter to be part of the claim.

Rettew merely appears to describe a transformer. Rettew does not describe a fault current limiter. Furthermore, the transformer winding of Rettew is not an air core. As can be clearly seen in FIG. 1 of Rettew and described in column 4, for example, core legs 6 and 7 are inserted within the openings of the coils 2 and 4.

Accordingly, Applicant respectfully submits that claim 1, and claims 2-3, 14, 21, and 45 which depend therefrom define allowable subject matter over the applied art. Withdrawal of the rejections is respectfully requested.

Rettew and Walsh

Applicant respectfully traverses the rejection of claims 15-20, 25, 27-31, 37, 39, 41-43, 45-47, 49-53, 55-56, 58, and 61 under 35 USC 103(a) over aforementioned Rettew in view Walsh, US4437082.

Claims 43, 58, and 59 have been canceled.

Claims 15-20, 25, 27-31, 37, 39, 41, 42, 45-47 and 49-51 each depend from claim 1 which Applicant believes to be patentable over Rettew for the reasons discussed above regardless of the description of transformer dielectric liquid in Walsh.

With respect to claim 52, and claims 53, 55-56, and 61 which depend therefrom, Applicant respectfully submits that the applied references do not teach, suggest, or disclose (either individually or in combination) the claim 52 recitations of :

52. A fault current limiter (FCL) comprising:
three air core flat clock spiral inductors, each inductor comprising a cylindrically wound sheet comprising copper and a insulation layer on at least one surface of the copper, each inductor configured for being attached in series with a busway;
a housing surrounding the three air core spiral inductors, the housing comprising wall; and
at least one cooling unit configured for providing cooling air the three spiral inductors of the FCL.

As discussed above, Rettew does not teach, suggest, or disclose a fault current limiter or air core inductors. Applicant does not traverse that Walsh describes fluid in a transformer but does traverse the applicability of these combined references to Applicant's claims. Walsh again does not relate to a fault current limiter. Also, like Rettew, in FIG. 1 there appears to be a winding around a core and no "air core."

Thus, even if the references were to be combined, such combination would not teach or suggest Applicant's claim 52 recitations.

Accordingly, Applicant respectfully submits that dependent claims 15-20, 25, 27-31, 37, 39, 41, 42, 45-47 and 49-51, independent claim 52, and dependent claims 53, 55-56, and 61 each define allowable subject matter over the applied art.

Objection to claims 22-24, 26, 32-36, 38, 40, 44, 54, 56-57, and 60

Claims 22-24, 26, 32-36, 38, 40, 44, 54, 56-57, and 60 were objected to as being dependent upon a rejected base claim. The Examiner indicated that these claims would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Each

Appl. No. 09,682,852
Amdt. Dated 15 March 2004
Reply to Office action of 15 December 2004

of these claims depends directly or indirectly from either claim 1 or 52 which Applicant believes to be patentable for the reasons discussed above.

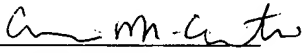
Furthermore, Applicants submit a comment on the Office Action statement on the reason for allowance of claims 26, 54, and 57. The statement refers to these claims reciting "inter alia, *insulation comprising a resin a resin, silicone, glass, or combinations thereof.*" Claims 26 and 54 recite additional alternative materials, and claim 57 relates to laminations and not a specific material of the insulation.

Summary

Applicant respectfully requests that a timely Notice of Allowance be issued in this case..

Should the Examiner believe that anything further is needed to place the application in even better condition for allowance, the Examiner is requested to contact applicant's undersigned representative at the telephone number below.

Respectfully submitted,

By 
Ann M. Agosti
Reg. No. 37,372
General Electric Company
Building K1, Room 3A66
Schenectady, New York 12301
Telephone: (518) 387-7713